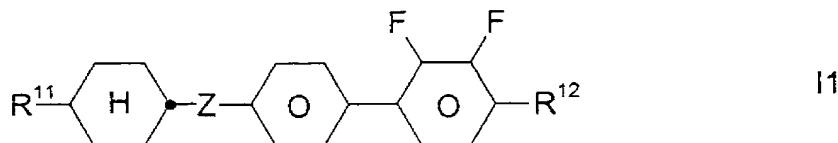


Claims:

1. A liquid-crystalline medium based on a mixture of polar compounds having negative dielectric anisotropy, comprising at least one compound of formula I1
5



10 and at least one compound of formula I2



15 in which

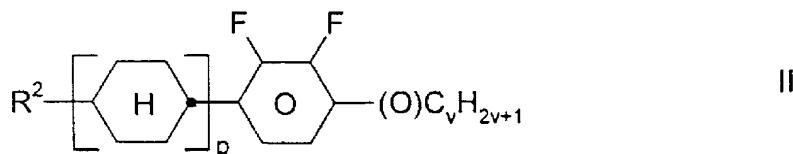
15 R¹¹, R¹² and R²¹ are each, independently of one another, alkyl or alkenyl having up to 15 carbon atoms which is unsubstituted, monosubstituted by CN or CF₃ or at least 20 monosubstituted by halogen, where one or more CH₂ groups in these radicals may also, in each case independently of one another, be

25 replaced by -O-, -S-,  -C≡C-, -CO-, -CO-O-, O-CO- or -O-CO-O- in such a way that O atoms are not linked directly to one another,

30 Z is -C₂H₄-, -CH=CH-, -CF₂O-, -OCF₂- or a single bond, and

alkenyl is straight-chain alkenyl having
 2-6 carbon atoms.

5 2. The medium according to claim 1, additionally comprising at least one compound of formula II



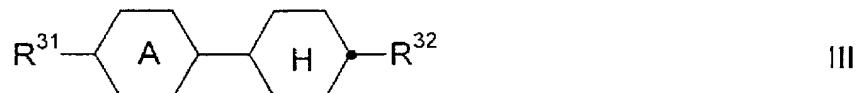
10 in which

R² is independently as defined for R¹¹, R¹² and R²¹,

15 p is 1 or 2, and

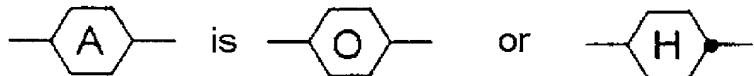
v is 1 to 6.

20 3. The medium according to claim 1, additionally comprising at least one compound of formula III



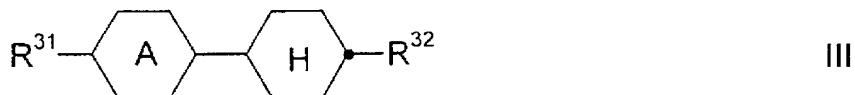
25 in which

R³¹ and R³² are each, independently of one another, a straight-chain alkyl or alkyloxy radical having 1-12 carbon atoms, and



30

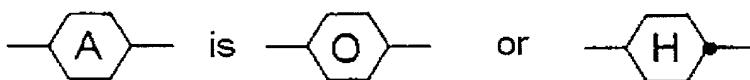
4. The medium according to claim 2, additionally comprising at least one compound of formula III



5

in which

10 R³¹ and R³² are each, independently of one another, a straight-chain alkyl or alkyloxy radical having 1-12 carbon atoms, and



15 5. The medium according to claim 1, comprising at least three compounds of formulae II1 or II2.

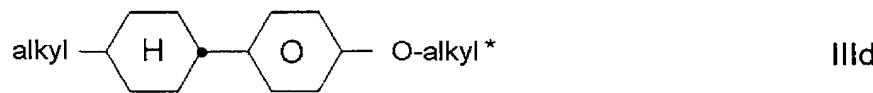
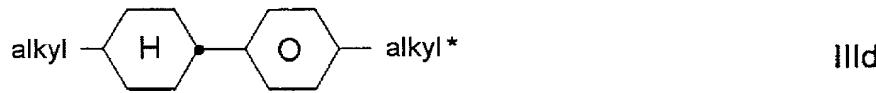
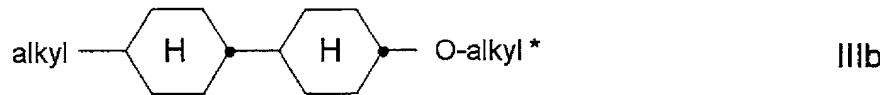
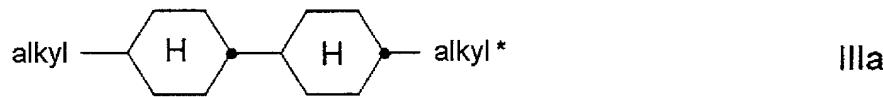
20 6. The medium according to claim 1, having a proportion of compounds of formula II1 in the total mixture of at least 10% by weight.

25 7. The medium according to claim 1, having a proportion of compounds of formula II2 in the total mixture of at least 5% by weight.

30 8. The medium according to claim 2, having a proportion of compounds of formula II in the total mixture of at least 20% by weight.

35 9. The medium according to claim 3, having a proportion of compounds of formula III in the total mixture of at least 5% by weight.

10. The liquid-crystalline medium according to claim 3, comprising at least one compound of formulae IIIa to IIId:

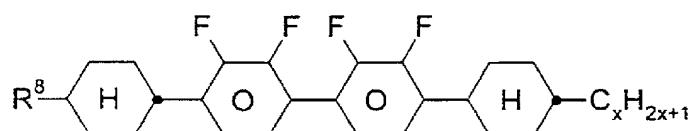
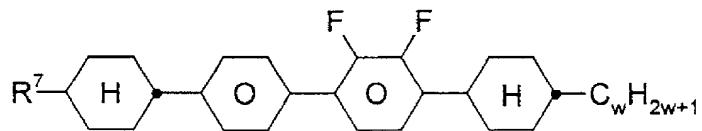


in which

5 alkyl and
 alkyl* are each, independently of one another,
 straight-chain alkyl having 1-6 carbon
 atoms.

10 11. The liquid-crystalline medium according to claim
 10, comprising at least one compound of formula
 IIIa, at least one compound of formula IIIb, or a
 mixture thereof.

15 12. The liquid-crystalline medium according to claim 1,
 additionally comprising at least one compound of
 the formulae



in which

R⁷ and R⁸ are each, independently of one another,
as defined for R¹¹, R¹² and R²¹, and

w and x are each, independently of one another,
5 from 1 to 6.

13. The liquid-crystalline medium according to claim 2,
comprising

10 10-40% by weight of at least one compound of
formula I1,

15 5-30% by weight of at least one compound of
formula I2,

and

20 20-70% by weight of at least one compound of
formula II.

25 14. An electro-optical display having active matrix
addressing based on ECB effect or IPS effect,
comprising as a dielectric, a liquid-crystalline
medium according to claim 1.

15. An electro-optical display comprising, as a
dielectric, a liquid-crystalline medium according
to claim 1.

30 16. An electro-optical display comprising, as a
dielectric, a liquid-crystalline medium according
to claim 2.

35 17. An electro-optical display comprising, as a
dielectric, a liquid-crystalline medium according
to claim 3.